



39766-0160D2 Saved March 2 2006.txt

SEQUENCE LISTING

<10> AFAR, DANIEL E.
HUBERT, RENE S.
LEONG, KAHAN
RAITANO, ARTHUR B.
SAFFRAN, DOUGLAS C.
MITCHELL, STEPHEN CHAPPELL

<120> SERPENTINE TRANSMEMBRANE ANTIGENS EXPRESSED IN HUMAN CANCERS AND USES THEREOF

<130> 39766-0160D2

<140> US 10/750,262
<141> 2003-12-31

<150> US 10/011,095
<151> 2001-12-06

<150> US 09/323,873
<151> 1999-06-01

<150> US 60/087,520
<151> 1998-06-01

<150> US 60/091,183
<151> 1998-06-30

<160> 37

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caatgtttc	catcaactctc	ttggcattgg	tttacctgcc	aggtgtgata	gcagcaattt	480
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aggtccaaca	aaataaagaa	gatgcctgga	ttgagcatga	tgtttggaga	atggagattt	720
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 35 40 45
 Thr Ala His Ala Asp Glu Phe Asp Cys Pro Ser Glu Leu Gln His Thr
 50 55 60
 Gln Glu Leu Phe Pro Gln Trp His Leu Pro Ile Lys Ile Ala Ala Ile
 65 70 75 80
 Ile Ala Ser Leu Thr Phe Leu Tyr Thr Leu Leu Arg Glu Val Ile His
 85 90 95
 Pro Leu Ala Thr Ser His Gln Gln Tyr Phe Tyr Lys Ile Pro Ile Leu
 100 105 110
 Val Ile Asn Lys Val Leu Pro Met Val Ser Ile Thr Leu Leu Ala Leu
 115 120 125
 Val Tyr Leu Pro Gly Val Ile Ala Ala Ile Val Gln Leu His Asn Gly
 130 135 140
 Thr Lys Tyr Lys Lys Phe Pro His Trp Leu Asp Lys Trp Met Leu Thr
 145 150 155 160
 Arg Lys Gln Phe Gly Leu Leu Ser Phe Phe Ala Val Leu His Ala
 165 170 175
 Ile Tyr Ser Leu Ser Tyr Pro Met Arg Arg Ser Tyr Arg Tyr Lys Leu
 180 185 190
 Leu Asn Trp Ala Tyr Gln Gln Val Gln Gln Asn Lys Glu Asp Ala Trp
 195 200 205
 Ile Glu His Asp Val Trp Arg Met Glu Ile Tyr Val Ser Leu Gly Ile
 210 215 220
 Val Gly Leu Ala Ile Leu Ala Leu Leu Ala Val Thr Ser Ile Pro Ser
 225 230 235 240
 Val Ser Asp Ser Leu Thr Trp Arg Glu Phe His Tyr Ile Gln Ser Lys
 245 250 255
 Leu Gly Ile Val Ser Leu Leu Leu Gly Thr Ile His Ala Leu Ile Phe
 260 265 270
 Ala Trp Asn Lys Trp Ile Asp Ile Lys Gln Phe Val Trp Tyr Thr Pro
 275 280 285
 Pro Thr Phe Met Ile Ala Val Phe Leu Pro Ile Val Val Leu Ile Phe
 290 295 300
 Lys Ser Ile Leu Phe Leu Pro Cys Leu Arg Lys Lys Ile Leu Lys Ile
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 Ser Gln Leu

<210> 3
 <211> 111
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 <213> Homo sapiens

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<213> Artificial Sequence
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<213> Artificial Sequence

<220>
<223> Primer

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caqaacttca qcacacacag gaac

24

<210> 6
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<212> DNA
<213> *Homo sapiens*

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cacattgctc	tgccctgttac	acatatgatg	aacactgctt	tttagacttc	attaggaatt	2160
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gcccctgaat	aattgtgagt	tcgatttgc	ctggcaggct	aatgaccatt	tccagtaaaag	2460
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gagcatatcc	agatgaggtt	ggatgggata	aactcttatt	gaaccaatct	tcaccaattt	3240
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<213> *Homo sapiens*

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      20          25          30
Ala Ala Tyr Gln Leu Tyr Tyr Gly Thr Lys Tyr Arg Arg Phe Pro Pro
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Trp Leu Glu Thr Trp Leu Gln Cys Arg Lys Gln Leu Gly Leu Leu Ser
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Phe Phe Phe Ala Met Val His Val Ala Tyr Ser Leu Cys Leu Pro Met
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85 90 95
His Ala Asn Ile Glu Asn Ser Trp Asn Glu Glu Val Trp Arg Ile
100 105 110
Glu Met Tyr Ile Ser Phe Gly Ile Met Ser Leu Gly Leu Leu Ser Leu
115 120 125
Leu Ala Val Thr Ser Ile Pro Ser Val Ser Asn Ala Leu Asn Trp Arg
130 135 140
Glu Phe Ser Phe Ile Gln Ser Thr Leu Gly Tyr Val Ala Leu Leu Ile
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Ser Thr Phe His Val Leu Ile Tyr Gly Trp Lys Arg Ala
165 170

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<211> 322
<212> DNA
<213> Homo sapiens

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attaccttgc tcccttagt atacccgtca ggtcttctgg cagctgctta tcaactttat 180
tacggcacca agtataaggag atttccaccc tgggtggaaa cctggttaca gtgtagaaaa 240
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ccgatgagaa ggtcagagag at 322

<210> 10
<211> 183
<212> DNA
<213> Homo sapiens

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tgtgactgag tgggtggccag tgagatgaag tctcctcaaa ggaaggcagc atgtgtccctt 180
ttt 183

<210> 11
<211> 448
<212> DNA
<213> Homo sapiens

<400> 11
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aatgcagtca actggagaga gttccgattt gtccagttca aactgggtt tttgaccctg 180
atcttgcata cagcccacac cctgggtac ggtgggaaga gattccttag cccttcaat 240
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gtgatcaagt ttgtccta catccatgt gttagacaaca cccttacaag gatccggccag 360
ggctggaaa ggaactcaaa acactagaaaa aagcattgaa tggaaaatca atatttaaaa 420
caaaggtaaa tttagctgaa aaaaaaaaaa 448

<210> 12
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<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
 <222> 11, 56, 233, 250, 310, 326, 377, 398
 <223> n = a,t,c or g

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 gctcaactgg agggagttca gcttcgttca gtcctcaactg ggctttgtgg ccntcgtgct 240
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 gttctacctn cctccacac tcaacntcac gctgctggtg ccctgcgttc gttcatcctg 360
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 <223> RT-PCR Primer AI139607.1

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<210> 14
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 <223> RT-PCR primer AI139607.2

<400> 14
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<223> RT-PCR primer 98P4B6.1

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<210> 18

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<212> DNA

<213> Artificial Sequence

<220>

<223> RT-PCR primer 98P4B6.2

<400> 18

tttgaggaga cttcatctca ctgg

24

<210> 19

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> STEAP-1 peptide

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Arg Glu Val Ile His Pro Leu Ala Thr Ser His Gln Gln Tyr Phe Tyr

1

5

10

15

Lys Ile Pro Ile Leu Val

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<210> 20

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> STEAP-1 peptide

<400> 20

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1

5

10

15

Gln Gln Asn Lys Glu Asp Ala Trp Ile Glu His Asp Val Trp Arg Met

20

25

30

Glu Ile

<210> 21

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<220>

<223> STEAP-1 PEPTIDE

<400> 21

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5

10

15

<210> 22
<211> 14
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<211> 44
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<220>
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<212> DNA
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<220>
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<400> 24
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<210> 25
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<220>
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<220>
<223> Nested primer (NP) 1

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<220>
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<400> 28
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<210> 29
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<220>
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<210> 30
<211> 25
<212> DNA
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<220>
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<400> 30
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<210> 31
<211> 26
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<400> 31
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<210> 32
<211> 15
<212> PRT
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<210> 33
<211> 128
<212> PRT
<213> Homo sapiens

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Ile Thr Ser Leu Pro Ser Val Ser Asn Ala Val Asn Trp Arg Glu Phe
35 40 45
Arg Phe Val Gln Ser Lys Leu Gly Tyr Leu Thr Leu Ile Leu Cys Thr
50 55 60
Ala His Thr Leu Val Tyr Gly Gly Lys Arg Phe Leu Ser Pro Ser Asn
65 70 75 80
Leu Arg Trp Tyr Leu Pro Ala Ala Tyr Val Leu Gly Leu Ile Ile Pro
85 90 95
Cys Thr Val Leu Val Ile Lys Phe Val Leu Ile Met Pro Cys Val Asp
100 105 110
Asn Thr Leu Thr Arg Ile Arg Gln Gly Trp Glu Arg Asn Ser Lys His
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<210> 34
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<212> PRT
<213> Homo sapiens

<220>
<221> VARIANT
<222> 15, 74, 105, 122
<223> Xaa = Any Amino Acid

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35 40 45
Ser Leu Pro Ser Ile Ala Asn Ser Leu Asn Trp Arg Glu Phe Ser Phe
50 55 60
Val Gln Ser Ser Leu Gly Phe Val Ala Xaa Val Leu Ser Thr Leu His
65 70 75 80
Thr Leu Thr Tyr Gly Trp Thr Arg Ala Phe Glu Glu Ser Arg Tyr Lys
85 90 95
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100 105 110
Arg Ser Ser Trp Ala Lys Ala Leu Phe Xaa Leu Pro Cys Ile Gln Pro
115 120 125

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<220>
<223> RT-PCR primer R80991.3

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22

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<211> 23
<212> DNA
<213> Artificial Sequence

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<223> RT-PCR primer R80991.4

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23

<210> 37
<211> 15
<212> PRT
<213> Homo sapiens

<400> 37
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